Engineering Division
W/OSO321:BGM

MAINTENANCE SCHEDULE FOR AUTOMATED SURFACE OBSERVING SYSTEM
(For Electronics Technicians)

* Referenced Paragraphs are found in 5100 Site Technical Manual

QUARTERLY

What to Check	How to Check	Precautions & Remarks*
System	Perform visual inspection	Paragraph 1.5.2.2
	Clean peripherals	Paragraph 1.5.2.3
ACU	Clean air filters	Paragraph 2.5.2.1
	Clean CRT screens	Paragraph 2.5.2.2
	Clean cabinets	Paragraph 2.5.2.3
	Check memory board LOW BATT indicator	Paragraph 2.5.2.4
DCP	Clean cabinets	Paragraph 3.5.2.1
Wind Sensor	Perform routine inspection	Paragraph 4.5.2.1
	Check obstruction lights	Paragraph 4.5.2.2
Temperature/dewpoint sensor	Clean/inspect aspirator air passages	Paragraph 5.5.2.2
	Clean/inspect aspirator mirror	Paragraph 5.5.2.2
	Perform optical loop adjustments	Paragraph 5.5.2.3
Visibility sensor	Clean lens assemblies	Paragraph 6.5.2
*Visibility sensor	Calibrate sensor	Paragraph 6.5.3
Present Weather Sensor	Clean lens	Paragraph 7.5.2.1
*Present weather sensor	Calibrate sensor	Paragraph 7.5.2.2
Pressure sensor	Clean and inspect	Paragraph 8.5.2.2
Ceilometer	Routine inspection and cleaning	Paragraph 9.5.2.2
	Clean windows	9.5.2.3
	Check window conditioner	9.5.2.3
Tipping bucket	Clean and inspect	Paragraph 10.5.2.1

SEMIANNUALLY

What to Check	How to Check	Precautions & Remarks
ACU	Check/Clean batteries	Paragraph 2.5.2.5
DCP	Check/Clean batteries	Paragraph 3.5.2.3
Wind Sensor	Mechanical operation inspection (bearings, cup balance, vane balance)	Paragraph 4.5.2.3
	Perform Starting Torque test of wind direction/speed sensors	4.5.3.10 4.5.2.4
Temperature/dewpoint sensor	Check DC power Supplies	Paragraph 5.5.2.5
	Test fan fail monitor circuit	Paragraph 5.5.2.4
	Calibrate sensor	Paragraph 5.5.2.6
Pressure sensor	Verify accuracy of pressure sensor data	Paragraph 8.5.2.3
Ceilometer	Check sensor calibration	Paragraph 9.5.2.4

wind dir alignment 4.5.2.5

ANNUALLY

What to Check	How to Check	Precautions & Remarks
Present weather sensor	Treat with insect paint	Paragraph 7.5.2.3
system	visual / paint	1.5.2.3
paint rain		1.5.3.5
wind system	cross/arm assy	4.5.2.3
Tipping bucket	cable/conn assy	10.5.2
present weather		4.

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL WEATHER SERVICE
Silver Spring, Md. 20910

October 9, 1992 W/OSO321:BGM

TO: All NWS Regional Headquarters, Area Electronics Supervisors and Electronics Technicians (EHB-11 Distribution)

FROM: W/0S03 - J. Michael St. Clair

SUBJECT: Transmittal Memorandum for Engineering Handbook No. 11, Issuance 92-5

1. Material Transmitted;

Engineering Handbook No. 11-Automated Observing Equipment, Volume 2, Section 4.0, Maintenance Schedule for Automated Surface Observing System (ASOS).

2. Summary:

This maintenance schedule has been prepared for the use of all personnel in the maintenance of ASOS. It comprises the minimum periodic checking and servicing considered necessary for dependable operation. One copy of the electronics technician portion is printed on YELLOW paper and attached to each copy of this transmittal memorandum.

Preventive maintenance tasks for ASOS are performed quarterly, semiannually, and annually. Section V of *Automated Surface Observing System Site Technical Manual S100* provides detailed preventive and corrective maintenance procedures for ASOS.

3. Effect on Other Instructions:

*The site technical manual states that calibration for the visibility sensor and the present weather sensor shall be completed every 180 days. This information is incorrect. The sensors need to be calibrated every 90 days. Disregard the calibration schedule in the site technical manual for the visibility and present weather sensors.

MAINTENANCE SCHEDULE INDEX - AUTOMATED SURFACE OBSERVING SYSTEM

Date of Issue	Title
October 9, 1992	Maintenance Schedule for Automated Surface Observing System